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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/658,780	09/10/2003	Tatsuhiko Fujihira	A32442-II - 070198.0499	. 3921
21003	7590 11/29/2004		EXAMINER	
BAKER & BOTTS			KANG, DONGHEE	
	30 ROCKEFELLER PLAZA NEW YORK, NY 10112		ART UNIT	PAPER NUMBER
,			2811	
			DATE MAILED: 11/29/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
000	10/658,780	FUJIHIRA, TATSUHIKO	
Office Action Summary	Examiner	Art Unit	
	Donghee Kang	2811	
The MAILING DATE of this commun Period for Reply	nication appears on the cover sheet t	with the correspondence address	
A SHORTENED STATUTORY PERIOD F THE MAILING DATE OF THIS COMMUN - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this com - If the period for reply specified above is less than thirty (1) - If NO period for reply is specified above, the maximum s - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In no event, however, may a munication. 30) days, a reply within the statutory minimum of the tatutory period will apply and will expire SIX (6) MG will, by statute, cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) fil	ed on <u>04 October 2004</u> .		
2a) This action is FINAL .	2b)⊠ This action is non-final.	·	
3) Since this application is in condition closed in accordance with the pract		atters, prosecution as to the merits is D. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 27 and 28 is/are pending i 4a) Of the above claim(s) is/a 5) Claim(s) is/are allowed. 6) Claim(s) 27 and 28 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restri	are withdrawn from consideration.		
Application Papers			
9)☐ The specification is objected to by the transfer of the specification is objected to by the transfer of the specific of t	04 is/are: a) accepted or b) objection to the drawing(s) be held in abey g the correction is required if the drawing	ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim a) All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies	y documents have been received. y documents have been received in s of the priority documents have bee onal Bureau (PCT Rule 17.2(a)).	Application No. <u>09/348,915</u> . en received in this National Stage	
Attachment(s) 1) ☑ Notice of References Cited (PTO-892)	4\ ☐ Interview	v Summary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (3) Information Disclosure Statement(s) (PTO-1449 of Paper No(s)/Mail Date 11/28/03. 	PTO-948) Paper N	o(s)/Mail Date f Informal Patent Application (PTO-152)	
S. Patent and Trademark Office		•	

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DETAILED ACTION

Continuing Domestic Data

1. Acknowledgment is made that this application is a continuation of application Serial No. 09/348,915, filed 7 September 1999, which issued as U.S.Patent No. 6,683,347.

Priority

2. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. 09/348,915, filed on July 7, 1999.

Information Disclosure Statement

Acknowledgment is made of receipt of applicant's Information Disclosure
 Statement (PTO-1449) field November 28, 2003.

Drawings

4. The drawings were received on June 16, 2004. These drawings are acceptable.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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6. Claims 27-28 are rejected under 35 U.S.C. 102(e) as being anticipated by Neilson (US 6,081,009).

Re claim 27, Neilson teaches a semiconductor device comprising (Fig.4):

A layer (12) with low electrical resistance; a semiconductive substrate region (16) on the layer with low electrical resistance, the semiconductive substrate region providing a current path when the semiconductor deivce is ON and being depleted when the semiconductor device is OFF, the semiconductive substrate region comprising regions of a first conductive type (32) and regions of a second conductivity type (30), and the regions of the first conductivity type and the regions of the second conductivity type being arranged alternately with each other; a first major surface above the surface of the semiconductive substrate region; and a second major surface on the back surface of the layer with low electrical resistance, wherein a net impurity concentration distribution within (20) the regions of the first conductivity type along a direction crossing the first major surface and the second major surface peaks approximately at the first major surface.

Re claim 28, Neilson teaches the net impurity concentration distribution peaks approximately at the first major surface is higher than that of the region of the corresponding conductivity type of the semiconductive substrate region.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donghee Kang whose telephone number is 571-272-1656. The examiner can normally be reached on Monday through Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C Lee can be reached on 571-272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kong Nurshel Donghee Kang, Ph.D. Primary Examiner Art Unit 2811

dhk